REMARKS

Claim Rejections - 35 U.S.C. § 103

The Examiner has rejected claims 1-14 and 28-33 under 35 U.S.C. § 103(a) as being unpatentable over <u>Farkas et al</u>. (US Patent 6,001,730) in view of <u>Kaufman et al</u>. (US Patent 6,063,306).

It is Applicant's understanding that the cited references fail to teach or render obvious Applicant's invention as claimed in claims 1-14 and 28-33. In claims 1-14 and 28-33, Applicant claims a method of polishing copper which utilizes a slurry having a high pH (e.g., between 7.5-12) and having less than or equal to 10 weight percent of abrasives. It is the Examiner's position that Farkas teaches a copper slurry with a pH between 9.0-11 with between 1.0-12 weight percent silica as the abrasive. It is Applicant's understanding that Farkas fails to describe a copper slurry as suggested by the Examiner and as claimed by Applicant. It is Applicant's understanding that Farkas actually describes two separate and distinct slurries. A first slurry for polishing copper and a second slurry for polishing the tantalum barrier layer. The first slurry for polishing copper contains an oxidizing agent, carboxylate salt (e.g., citrate salt), an abrasive slurry/agent, a solvent and an optional triazole or triazole derivative (Col. 5, lines 61-64). The copper slurry has an abrasive in the amount of 1.0-12 weight percent (Col. 6, lines 17-19). After polishing the copper layer with the copper slurry, Farkas teaches to utilize a second slurry to polish the tantalum based barrier layer. The tantalum slurry has a pH between 9.0-11.0 (Col.7, lines 31-39). As such, in Farkas, it is the tantalum slurry that has a pH between 9.0-11.0 and not the copper slurry. Accordingly, Farkas fails to teach polishing a copper

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layer with a slurry having a high pH and an abrasive in the amount of 10 weight percent or less as claimed by Applicant.

As such, the combination of <u>Farkas</u> and <u>Kaufman</u>, fails to teach or render obvious Applicant's invention as claimed in claims 1-14 and 28-33. Applicant, therefore, respectfully requests the removal of the 35 U.S.C. § 103 rejections of claims 1-14 and 28-33 and seeks an early allowance of these claims.

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